DAY -5

1. Do the below programs in anonymous function & IIFE?

Print odd numbers in an array

Convert all the strings to title caps in a string array

Sum of all numbers in an array

Return all the prime numbers in an array

Return all the palindromes in an array

Return median of two sorted arrays of the same size

Remove duplicates from an array

Rotate an array by k times

1. //Print odd numbers in an array//

const arr = [1, 2, 3, 4, 5, 6, 7, 8, 9];

const odds = arr.filter(number => {

return number % 2 !== 0;

});

console.log(odds);

// output [1,3,5,7,9]

1. //Convert all the strings to title caps in a string array//

const sentence = 'i am a student.';

console.log(sentence.toUpperCase());

//output: "I AM A STUDENT."

1. // Sum of all numbers in an array//

// Creating array

var arr = [4, 8, 7, 13, 12]

// Creating variable to store the sum

var sum = 0;

// Running the for loop

for (let i = 0; i < arr.length; i++) {

sum += arr[i];

}

console.log("Sum is " + sum)

//output: Sum is 44

1. // Return all the prime numbers in an array//

var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) return false;

}

return true;

});

console.log(numArray);

//output: [2,3,5,7]

2. Do the below programs in arrow functions?

Print odd numbers in an array

Convert all the strings to title caps in a string array

Sum of all numbers in an array

Return all the prime numbers in an array

Return all the palindromes in an array

1.) // Print odd numbers in an array//

var numbers = [1,2,3,4,5]

// arrow function

es6\_square = numbers.map(number=>{return number\*number})

console.log(es6\_square)

//output: [1, 4, 9, 16, 25]

2.)//Convert all the strings to title caps in a string array//

const names = ['Ali', 'Atta', 'Alex', 'John'];

const uppercased = names.map(name => name.toUpperCase());

console.log(uppercased);

// output: ['ALI', 'ATTA', 'ALEX', 'JOHN']

3.)//Sum of all numbers in an array//

sum = (a, b) => {

return(a+b)

}

m= sum(34,87)

console.log(m)

//output: 121

4.)//Sum of all numbers in an array//

const newArray = [1, 3, 2, 5, 10];

const myPrimeArray = newArray.filter(num => {

for (let i = 2; i < num; i++) {

if (num % i === 0) return false;

}

return num !== 1;

});

console.log(myPrimeArray);

//output: [3,2,5]